

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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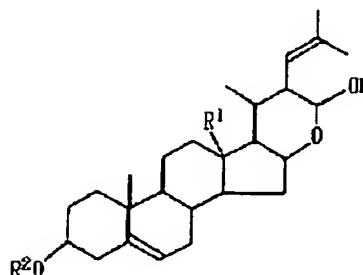
APPLICATION DATE : 26-04-96  
APPLICATION NUMBER : 08107254

APPLICANT : POLA CHEM IND INC;

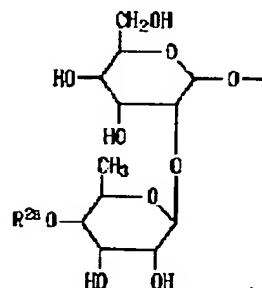
INVENTOR : MIYATA YOSHIYUKI;

INT.CL. : C07J 71/00 A61K 31/70 A61K 31/70 //  
A61K 35/78

TITLE : STEROID GLYCOSIDE AND MEDICINE  
CONTAINING THE SAME AS ACTIVE  
INGREDIENT



I



II

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a new steroid glycoside, available from a plant of the family Liliaceae *Onityhogalum saundersiae*, etc., by extraction with a solvent, having excellent anticancer and immunosuppressing actions and high safety and useful as an anticancer agent, an immunosuppressant, etc.

SOLUTION: This new steroid glycoside of formula I [ $R^1$  is formyl or a hydroxyalkyl of a short chain length;  $R^{2a}$  is a saccharide residue such as formula II ( $R^2$  is H, p-hydroxybenzoyl or p-methoxybenzoyl) which may have an acyl group. The glycoside has excellent anticancer and immunosuppressing actions and high safety and is useful as an anticancer agent, an immunosuppressant, etc. The compound is obtained by chopping a fresh bulb of a plant of the family *Onityhogalum saundersiae*, then digesting the resultant chopped bulb with methanol, removing insoluble substances by filtration, carrying out the liquid-liquid extraction with butanol and water, collecting a butanol layer, removing the solvent and purifying the residue according to the ion exchange column chromatography, silica gel column chromatography and high-performance liquid chromatography.

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